Attorney Docket No.: SAM-0424

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Dong-ho Hyun, et al.

Filing Date:

Herewith

Title:

DATA OUTPUT CIRCUIT FOR REDUCING SKEW OF DATA SIGNAL

CERTIFICATE OF MAILING UNDER 37 C.F.R.§ 1.10

"Express Mail" Mailing Label Number EV322655975US I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

6-30-03

Date

Christopher J. Hrea

Mail Stop Patent Application Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Sir:

Enclosed herewith for filing in the above-identified patent application please find the following listed items:

- 1. New Application Transmittal;
- 2. New Patent Application;
- 3. Executed Declaration, Petition and Power of Attorney;
- 4. Eight (8) Sheets of Formal Drawings (Figures 1-3, 4A, 4B, 5, 6A, 6B, 7, 8A and 8B);
- 5. Certified Copy of Priority Document Korean Application No. 02-43694;
- 6. Check in the amount of \$930.00 to cover application filing fee;
- 7. Assignment Recordation Form Cover Sheet - PTO-1595;
- 8. Executed Assignment;
- 9. Check in the amount of \$40.00 to cover Assignment Recordation fee; and
- 10. c Return Postcard.

In connection with the foregoing matter, please charge any additional fees which may be due, or credit any overpayment, to Deposit Account Number 50-1798. A duplicate copy of this letter is provided for this purpose.

Respectfully submitted,

Eleven Beacon Street, Suite 605

Boston, MA 02108

Telephone: (617) 994-4900 Facsimile: (617) 742-7774

J:\SAM\0424\transapp.wpd

Anthony P. Onello, J

Registration Number 38,572

Attorney for Applicant

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Alexandri	a, VA 22313-1450	*	:		
. •		NEW APPLICATION	TRANSMITTAL		
Transmitt	ed herewith for filing is the	patent application of			
Inventor(s	Dong-ho Hyun Jong-hyoung Lim				
For (title)	REDUCING SKE SIGNAL	W OF DATA		paper or fee is being of	22655975US deposited with the
	Type of Application This in (n)	new application is for	Addressee" service under and is addressed to Mail Patents, P.O. Box 1450,	er 37 CFR 1.10 on the Stop Patent Applicati	date indicated above on Commissioner for
· · · _	Original (nonprovisiona) Design	1)	Date: 6-30-0	Christopher J.	Hren My
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	Continuation.		•		
·	Continuation-in-part (C-	I-P).		8	•
2. Bene	efit of Prior Application(s	5)		ζ , · · ·	
	The new application no. 02-43694. See Iten	on being transmitted clair n 7.	ns the benefit of prior	Korean application	n
3. Pa	pers Enclosed				,
_	Pages of specifica	tion			
	11 Pages of claims 1 Page of Abstract				
. –	8 Sheets of drawin	•			
· -	⊠ formal				
-	informal Page of Cover Sheet				
	in the second se				
	e enclosed drawing(s) are OTOGRAPH(S) AS DRA		:	TITION TO ACC	EPT

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	Preliminary	Amendment							
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		is made by a perso	n authorized und	ler 37 C.F.	.R. 1.41 (c)	on behalf of a	ill the abo	ve named	
		Showing that th	e filing is author	ized.					
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Assign	nment							•	· :
\boxtimes	An assignmen	nt of the invention	to Samsung I	Electronics	Co., Ltd.	•			
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	Dec Assign	☐ Preliminary ☐ Information ☐ Form PTO-1 ☐ Copies of cit ☐ Declaration of ☐ Submission of ☐ biotechnolog ☐ Authorization ☐ Special Com ☒ Other: Return ☐ Unexect ☒ Execute ☒ Execute ☒ Execute ☒ Application inventor(s). ☐ Assignment ☐ An assignment ☐ An assignment ☐ An assignment ☐ Accome	□ Form PTO-1449 (PTO/SB/08//□ Copies of cited references □ Declaration of Biological Depoter Submission of "Sequence Listing biotechnology invention contained Authorization of Attorney(s) to Special Comments □ Other: Return Postcard. Declaration or oath □ Unexecuted □ Unexecuted □ Executed by □ inventors □ legal representated 37 CFR 1.42 or inventor or to sign or cannot to sign or cannot to sign or cannot is also attached. □ Not Enclosed □ Application is made by a person inventor(s). □ Showing that the Assignment □ An assignment of the invention is attached. A separate □ Inventor	□ Preliminary Amendment □ Information Disclosure Statement (37 C.F.R. 1) □ Form PTO-1449 (PTO/SB/08A and 08B) □ Copies of cited references □ Declaration of Biological Deposit □ Submission of "Sequence Listing," computer rebiotechnology invention containing nucleoticle □ Authorization of Attorney(s) to Accept and Fo □ Special Comments □ Other: Return Postcard. Declaration or oath □ Unexecuted □ Executed by □ inventors □ legal representative of inventor(s 37 CFR 1.42 or 1.43. □ joint inventor or person showing to sign or cannot be reached. □ This is the petition required by 3 is also attached. See item 12 bell □ Not Enclosed □ Application is made by a person authorized und inventor(s). □ Showing that the filing is author Assignment □ An assignment of the invention to Samsung 1 is attached. A separate □ "COVER SHEI ACCOMPANYING NEW PATENT APP	□ Preliminary Amendment □ Information Disclosure Statement (37 C.F.R. 1.98) □ Form PTO-1449 (PTO/SB/08A and 08B) □ Copies of cited references □ Declaration of Biological Deposit □ Submission of "Sequence Listing," computer readable copiotechnology invention containing nucleoticle and/or ameliate and/	Preliminary Amendment Information Disclosure Statement (37 C.F.R. 1.98) Form PTO-1449 (PTO/SB/08A and 08B) Copies of cited references Declaration of Biological Deposit Submission of "Sequence Listing," computer readable copy and/or a biotechnology invention containing nucleoticle and/or amino acid se Authorization of Attorney(s) to Accept and Follow Instructions from Special Comments Other: Return Postcard. Declaration or oath Enclosed Unexecuted Executed by Inventors legal representative of inventor(s). 37 CFR 1.42 or 1.43. joint inventor or person showing a proprietary interest to sign or cannot be reached. This is the petition required by 37 CFR 1.47 and the sis also attached. See item 12 below for fee. Not Enclosed Application is made by a person authorized under 37 C.F.R. 1.41 (c) inventor(s). Showing that the filing is authorized. Assignment An assignment of the invention to Samsung Electronics Co., Ltd. Is attached. A separate "COVER SHEET FOR ASSIGNME ACCOMPANYING NEW PATENT APPLICATION" or Enclosed COVER SHEET FOR ASSIGNME ACCOMPANYING NEW PATENT APPLICATION" or Enclosed COVER SHEET FOR ASSIGNME ACCOMPANYING NEW PATENT APPLICATION" or Enclosed COVER SHEET FOR ASSIGNME ACCOMPANYING NEW PATENT APPLICATION" or Enclosed COVER SHEET FOR ASSIGNME ACCOMPANYING NEW PATENT APPLICATION" or Enclosed COVER SHEET FOR ASSIGNME ACCOMPANYING NEW PATENT APPLICATION" or Enclosed COVER SHEET FOR ASSIGNME ACCOMPANYING NEW PATENT APPLICATION" or Enclosed COVER SHEET FOR ASSIGNME ACCOMPANYING NEW PATENT APPLICATION" or Enclosed Cover Sheet For Assignment Cov	Preliminary Amendment Information Disclosure Statement (37 C.F.R. 1.98) Form PTO-1449 (PTO/SB/08A and 08B) Copies of cited references Declaration of Biological Deposit Submission of "Sequence Listing," computer readable copy and/or amendment per biotechnology invention containing nucleoticle and/or amino acid sequence. Authorization of Attorney(s) to Accept and Follow Instructions from Representati Special Comments Other: Return Postcard. Declaration or oath Enclosed Unexecuted Mexicuted Unexecuted Inventors Inventors Inventor Inventor or person showing a proprietary interest on behalf of it to sign or cannot be reached. This is the petition required by 37 CFR 1.47 and the statement required is also attached. See item 12 below for fee. Not Enclosed Application is made by a person authorized under 37 C.F.R. 1.41 (c) on behalf of a inventor(s). Showing that the filing is authorized. Assignment An assignment of the invention to Samsung Electronics Co., Ltd. is attached. A separate "COVER SHEET FOR ASSIGNMENT (DOCUM ACCOMPANYING NEW PATENT APPLICATION" or Mercounter of Porm PTO-155.	Preliminary Amendment Information Disclosure Statement (37 C.F.R. 1.98) Form PTO-1449 (PTO/SB/08A and 08B) Copies of cited references Declaration of Biological Deposit Submission of "Sequence Listing," computer readable copy and/or amendment pertaining the biotechnology invention containing nucleoticle and/or amino acid sequence. Authorization of Attorney(s) to Accept and Follow Instructions from Representative Special Comments Other: Return Postcard. Declaration or oath Enclosed Unexecuted May inventors legal representative of inventor(s). 37 CFR 1.42 or 1.43. joint inventor or person showing a proprietary interest on behalf of inventor we to sign or cannot be reached. This is the petition required by 37 CFR 1.47 and the statement required by 37 is also attached. See item 12 below for fee. Not Enclosed Application is made by a person authorized under 37 C.F.R. 1.41 (c) on behalf of all the aborinventor(s). Showing that the filing is authorized. An assignment of the invention to Samsung Electronics Co., Ltd. Is attached. A separate "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or \$McCOMPANYING NEW PATENT APPLICATION" or \$\frac{McCOMPANYING NEW PATENT	Preliminary Amendment Information Disclosure Statement (37 C.F.R. 1.98) Form PTO-1449 (PTO/SB/08A and 08B) Copies of cited references Declaration of Biological Deposit Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleoticle and/or amino acid sequence. Authorization of Attorney(s) to Accept and Follow Instructions from Representative Special Comments Other: Return Postcard. Declaration or oath Enclosed Unexecuted Executed by Maintenance Executed by Maintenance Instruction Instructions Inst

7. Certified Copy

Certified copy(ies) of application(s)

Korea	02-43694	July 24, 2002		
Country	Appln. no.	Filed		
Country	Appln. no.	Filed		
Country	Appln. no.	Filed		

from which priority is claimed

- is (are) attached.
- □ will follow.

8. Fee Calculation (37 C.F.R. 1.16)

	CL	AIMS AS FILED		
Nu	mber filed	Number Extra	Rate	Basic Fee 37 C.F.R. 1.16(a) \$750.00
Total Claims (37 CFR 1.16(c))	30 - 20 =	10	\$ 18.00	\$180.00
Independent Claims (37 CFR 1.16(b))	3 - 3 =	0	\$ 84.00	
Multiple dependent claim(s), if any (37 CFR 1.16(d))		+	\$280.00	

L	A Preliminary Amendment canceling claims is enclosed. The filing fee is c	alculated	based on
	the number of claims remaining after entry of the Preliminary Amendment.		

- Amendment deleting multiple-dependencies is enclosed.
- ☐ Fee for extra claims is not being paid at this time.

Filing Fee Calculation

\$930.00

	☐ Status as a small entity was claimed in prior application	•	, filed on	
	from which benefit is being claimed for this application to			
	35 U.S.C. 119(e),			• •
	□ 120,	•	*	
	\square 121,			
• .	□ 365(c),			·
	and which status as a small entity is still proper and desired.			
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٠	A copy of the verified statement in the price	or application is in	ncluded.	
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	Filing Fee Calculation (50% of A,	B or C above)	• 7	
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10.	Fee Payment Being Made at This Time	*		•
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	☐ No filing fee is to be paid at this time.			
	(This and the surcharge required by 3.7 C. F.R. 1.1	16(e) can be paid	subsequently.)	
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	☐ Basic filing fee	\$ <u>930.00</u>		
*	Recording assignment	•		
•	(\$40.00; 37 C.F.R. 1.21(h))			
	(See attached "COVER SHEET FOR ASSIGNMENT			, .
	ACCOMPANYING NEW APPLICATION".)	\$ <u>40.00</u>		
		0.070.00		
	Total fees enclosed	\$ <u>970.00</u>		,
11.	Method of Payment of Fees			
	Checks in the amounts of \$ 930.00 and \$40.00	•		
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Authorization to Charge Additional Fees 12.

. [2	37 C.F.R. 1.16(a), (f) or (g) (filing fees)					
Σ	37 C.F.R. 1.16(b), (c) and (d) (presentation	on of extra clain	ns)	•		
Ē	37 C.F.R. 1. 1 6(e) (surcharge for filing the	he basic filing fe	e and/or declara	ition on a da	te later th	an the
	filing date of the application)		00		·	
	37 C.F.R. 1.17 (application processing fe	ees)				
Γ	37 C.F.R. 1.18 (issue fee at or before mail	ling of Notice of	Allowance, pur	suant to 37 C	C.F.R. 1.3	11(b))

13.

Credit Account No. 50-1798

Refund

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Boston, MA 02108

Telephone: (617) 994-4900 Facsimile: (617) 742-7774

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Respectfully submitted,

Anthony P. Onello, Jr. Registration Number 38,572 Attorney for Applicant